

Met Tyr Gln Leu Phe Arg Ser Leu Ala Tyr Ile His Ser Gln Gly Val
 225 230 235 240
 Cys His Arg Asp Ile Lys Pro Gln Asn Leu Leu Val Asp Pro Asp Thr
 245 250 255
 Ala Val Leu Lys Leu Cys Asp Phe Gly Ser Ala Lys Gln Leu Val Arg
 260 265 270
 Gly Glu Pro Asn Val Ser Tyr Ile Cys Ser Arg Tyr Tyr Arg Ala Pro
 275 280 285
 Glu Leu Ile Phe Gly Ala Thr Asp Tyr Thr Ser Ser Ile Asp Val Trp
 290 295 300
 Ser Ala Gly Cys Val Leu Ala Glu Leu Leu Gly Gln Pro Ile Phe
 305 310 315 320
 Pro Gly Asp Ser Gly Val Asp Gln Leu Val Glu Ile Ile Lys Val Leu
 325 330 335
 Gly Thr Pro Thr Arg Glu Gln Ile Arg Glu Met Asn Pro Asn Tyr Thr
 340 345 350
 Glu Phe Lys Phe Pro Gln Ile Lys Ala His Pro Trp Thr Lys Val Phe
 355 360 365
 Lys Ser Arg Thr Pro Pro Glu Ala Ile Ala Leu Cys Ser Ser Leu Leu
 370 375 380
 Glu Tyr Thr Pro Ser Ser Arg Leu Ser Pro Leu Glu Ala Cys Ala His
 385 390 395 400
 Ser Phe Phe Asp Glu Leu Arg Cys Leu Gly Thr Gln Leu Pro Asn Asn
 405 410 415
 Arg Pro Leu Pro Pro Leu Phe Asn Phe Ser Ala Gly Glu Leu Ser Ile
 420 " 425 430
 Gln Pro Ser Leu Asn Ala Ile Leu Ile Pro Pro His Leu Arg Ser Pro
 435 440 445
 Ala Gly Thr Thr Leu Thr Pro Ser Ser Gln Ala Leu Thr Glu Thr
 450 455 460
 Pro Thr Ser Ser Asp Trp Gln Ser Thr Asp Ala Thr Pro Thr Leu Thr
 465 470 475 480
 Asn Ser Ser

<210> 2
 <211> 420
 <212> PRT
 <213> Artificial Sequence

<220>
 <223> Description of Artificial Sequence; note =
 synthetic construct

<400> 2
 Met Ser Gly Arg Pro Arg Thr Thr Ser Phe Ala Glu Ser Cys Lys Pro
 1 5 10 15
 Val Gln Gln Pro Ser Ala Phe Gly Ser Met Lys Val Ser Arg Asp Lys
 20 25 30
 Asp Gly Ser Lys Val Thr Thr Val Val Ala Thr Pro Gly Gln Gly Pro
 35 40 45
 Asp Arg Pro Gln Glu Val Ser Tyr Thr Asp Thr Lys Val Ile Gly Asn
 50 55 60
 Gly Ser Phe Gly Val Val Tyr Gln Ala Lys Leu Cys Asp Ser Gly Glu
 65 70 75 80
 Leu Val Ala Ile Lys Lys Val Leu Gln Asp Lys Arg Phe Lys Asn Arg
 85 90 95
 Glu Leu Gln Ile Met Arg Lys Leu Asp His Cys Asn Ile Val Arg Leu
 100 105 110
 Arg Tyr Phe Phe Tyr Ser Ser Gly Glu Lys Lys Asp Glu Val Tyr Leu
 115 120 125

Asn Leu Val Leu Asp Tyr Val Pro Glu Thr Val Tyr Arg Val Ala Arg
 130 135 140
 His Tyr Ser Arg Ala Lys Gln Thr Leu Pro Val Ile Tyr Val Lys Leu
 145 150 155 160
 Tyr Met Tyr Gln Leu Phe Arg Ser Leu Ala Tyr Ile His Ser Phe Gly
 165 170 175
 Ile Cys His Arg Asp Ile Lys Pro Gln Asn Leu Leu Leu Asp Pro Asp
 180 185 190
 Thr Ala Val Leu Lys Leu Cys Asp Phe Gly Ser Ala Lys Gln Leu Val
 195 200 205
 Arg Gly Glu Pro Asn Val Ser Tyr Ile Cys Ser Arg Tyr Tyr Arg Ala
 210 215 220
 Pro Glu Leu Ile Phe Gly Ala Thr Asp Tyr Thr Ser Ser Ile Asp Val
 225 230 235 240
 Trp Ser Ala Gly Cys Val Leu Ala Glu Leu Leu Gly Gln Pro Ile
 245 250 255
 Phe Pro Gly Asp Ser Gly Val Asp Gln Leu Val Glu Ile Ile Lys Val
 260 265 270
 Leu Gly Thr Pro Thr Arg Glu Gln Ile Arg Glu Met Asn Pro Asn Tyr
 275 280 285
 Thr Glu Phe Lys Pro Gln Ile Lys Ala His Pro Trp Thr Lys Val
 290 295 300
 Phe Arg Pro Arg Thr Pro Pro Glu Ala Ile Ala Leu Cys Ser Arg Leu
 305 310 315 320
 Leu Glu Tyr Thr Pro Thr Ala Arg Leu Thr Pro Leu Glu Ala Cys Ala
 325 330 335
 His Ser Phe Phe Asp Glu Leu Arg Asp Pro Asn Val Lys Leu Pro Asn
 340 345 350
 Gly Arg Asp Thr Pro Ala Leu Phe Asn Phe Thr Thr Gln Glu Leu Ser
 355 360 365
 Ser Asn Pro Pro Leu Ala Thr Ile Leu Ile Pro Pro His Ala Arg Ile
 370 375 380
 Gln Ala Ala Ala Ser Pro Pro Ala Asn Ala Thr Ala Ala Ser Asp Thr
 385 390 395 400
 Asn Ala Gly Asp Arg Gly Gln Thr Asn Asn Ala Ala Ser Ala Ser Ala
 405 410 415
 Ser Asn Ser Thr
 420

<210> 3
 <211> 2189
 <212> DNA
 <213> Artificial Sequence

<220>
 <223> Description of Artificial Sequence; note =
 synthetic construct

<400> 3

gcggcgccggc	ctggaagagg	ccagggcccg	ggggaggcgg	cggcagcggc	ggcggtctggg	60
gcagcccggg	cagcccgagc	cccgagact	gggcctgtgc	tccgcgcacat	gagcggcggc	120
gggccttcgg	gaggcgcccc	tggggctcgg	ggcaggcgcc	ggactagctc	gttcggggag	180
cccgccggcg	gaggcgagg	aggcgccggc	ggccccggag	gctcggcctc	cggcccaggc	240
ggcacccggcg	gcggaaaggc	atctgtcggg	gccatgggtg	ggggcggtcgg	ggcctcgagc	300
tccgggggtg	gaccggcgg	cagcggcgga	ggaggcagcg	gaggccccgg	cgcaggcact	360
agcttcccg	cgccccgggt	gaagctgggc	cgtgacagcg	ggaaggtgac	cacagtcgta	420
gccactctag	gccaaggccc	agagcgctcc	caagaagtgg	cttacacgga	catcaaagtg	480
atggcaatg	gctcatttgg	ggtcgtgtac	caggcacggc	tggcagagac	cagggacta	540
gtcgccatca	agaagggtct	ccaggacaag	aggttcaaga	accgagagct	gcagatcatg	600
cgtaaagctgg	accactgcaa	tattgtgagg	ctgagatact	ttttctactc	cagtggcgag	660
aagaaagacg	agcttacact	aaatctggtg	ctggaatatg	tgcccagagac	agtgtaccgg	720

gtggcccgcc	acttcaccaa	ggccaagttg	accatcccta	tcctctatgt	caaggtgtac	780
atgtaccaggc	tttcccgag	cttggcc tac	atccactccc	agggcgtgtg	tcaccgcgac	840
atcaagcccc	agaacctgct	ggtggaccct	gacactgctg	tcctcaagct	ctgcgatttt	900
ggcagtgc aa	agcagttgg	ccgaggggag	cccaatgtct	cctacatctg	ttctcgctac	960
taccgggccc	cagagctcat	cttggagcc	actgattaca	cctcatccat	cgatgtttgg	1020
tcagctggct	gtgtactggc	agagctcc	ttgggccc	ccatcttccc	tggggacagt	1080
gggggtggacc	agctggtgg	gatcatcaag	gtgctgggaa	caccaacccg	ggaacaaatc	1140
cgagagatga	accccaacta	cacggagttc	aagtccctc	agattaaagc	tcacccctgg	1200
acaaagggtgt	tcaa atctcg	aacggccca	gaggccatcg	cgctctgctc	tagctgctg	1260
gag tacaccc	cattcctaag	gctctccca	ctagaggcct	gtgcgcacag	cttctttgat	1320
gaactgcgat	gtctgggaa	ccagctgc	aacaaccc	cacttcccc	tctcttcaac	1380
ttcagtgc	gtgaacttc	catccaac	tc tcaac	ccattctcat	ccctcc	1440
ttgagggtcc	cagcgggcac	taccacc	accccg	cacaagctt	aactgagact	1500
ccgaccagct	cagactggc	gtgcacc	gccacac	ccctca	ctcctctga	1560
ggggcccccacc	aagcaccc	ccacttcc	ctgggagcc	caagagg	tggaaagg	1620
ggccatagcc	catcaagtc	ctgccc	tggggcc	gactagagg	cagaggtaa	1680
tgagtcctg	tccccac	cagtcc	ctcacc	tcaccc	gttgggctt	1740
ttaagaggat	tttaactgg	tgtgggagg	gaagagaagg	acagggtgtt	gggggatga	1800
ggacctccta	cccccttgg	cccctcc	cccc	tccaccc	ccagacccc	1860
tccctcctg	tgtccctt	aaatagaacc	agcc	gtctcc	ccctcc	1920
ccccccgggt	gtaaatagat	tgttataatt	tttttctt	agaaaac	gattcg	1980
gtccaacctg	gccccggcc	tcctac	gtaact	tcctgt	tgcccccaag	2040
gtctactccc	tcctcac	acc	ccagg	tggagag	tcctgtat	2100
ttagtttcca	cagtaagg	tgc	ctgtgt	cagac	ttcaataa	2160
aaaacctgaa	aaaaaaa	aaaaaaa	aaaaaaa	tttggc	at	2189

<210> 4
<211> 1639
<212> DNA
<213> Artificial Sequence

<220>
<223> Description of Artificial Sequence; note =
synthetic construct

<400> 4						
atcatctata	tgttaaata	ccgtgcc	atgtctt	ggagaaat	atcgctt	60
ttgttttta	tagtata	aaaggagt	aa	gaccaag	gacgaagt	120
c	ttctgtgg	agaactt	aat	gctgcatt	ttttctt	180
aaaggaagaa	aaggag	aaaggaa	gtgatt	tcgttac	aacacccaa	240
gcggcccaga	accac	cct	ttgcgg	ctgcaag	cataaagaca	300
tggcagcatg	aaagttag	ca	gagaca	ccgcag	aagagatg	360
tcctgggcag	ggtcc	ca	ggcaca	caag	tcatgtcagg	420
aaatggatca	tttgg	gtt	gttgc	gtgac	gttggcaac	480
catcaagaaa	gtatt	gcagg	acaagag	cc	gttggcaac	540
gctagatcac	tgt	taacat	ag	ccat	ttttctt	600
agatgagg	tat	ctt	atc	ttt	tactcc	660
cagacactat	agtc	gag	cc	ctt	gtgagaagaa	720
tcagctgttc	cga	agg	cc	gtt	acagagt	780
accgcaga	ctt	gtt	cc	gtt	acatgt	840
tgcaaagc	ctt	gtt	cc	gtt	atctgt	900
ggcaccag	ttt	gtt	cc	gtt	atctgt	960
tggctgtgt	ttt	gtt	cc	gtt	atctgt	1020
ggatcagtt	gt	ttt	cc	gtt	atctgt	1080
aatgaaccc	ttt	gtt	cc	gtt	atctgt	1140
ggattcgtca	ttt	gtt	cc	gtt	atctgt	1200
accggagg	ttt	gtt	cc	gtt	atctgt	1260
accactggaa	ttt	gtt	cc	gtt	atctgt	1320
accaaaatgg	ttt	gtt	cc	gtt	atctgt	1380
tccac	ttt	gtt	cc	gtt	atctgt	1440
cccacaaat	ttt	gtt	cc	gtt	atctgt	1500

tgctgcttct gcatcagctt ccaactccac ctgaacagtc ccgagcagcc agctgcacag 1560
gaaaaaccac cagttacttg agtgtcactc agcaacactg gtcacgtttg gaaagaatat 1620
aaaaaaaaaaaa aaaaaaaaaa 1639

<210> 5
<211> 20
<212> DNA
<213> Artificial Sequence

<220>
<223> Description of Artificial Sequence; note =
synthetic construct

<400> 5
gggggacgat cgtcgggggg 20

<210> 6
<211> 20
<212> DNA
<213> Artificial Sequence

<220>
<223> Description of Artificial Sequence; note =
synthetic construct

<400> 6
gggggagcat gctgcggggg 20